

## Climate Change Handbook Background

- Jointly developed
  - EPA, DWR, USACE and Resources Legacy Fund
  - CDM
- Commenting and editing
  - Round Table of Regions (Summer 2010)
  - Draft posted on the web (May 2011)
  - IRWM Conference (May 2011)
  - Technical Advisory Committee reviews (June/July 2011)

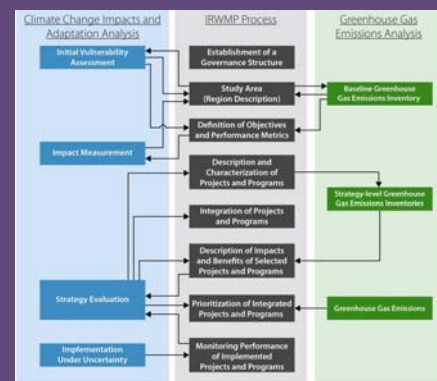
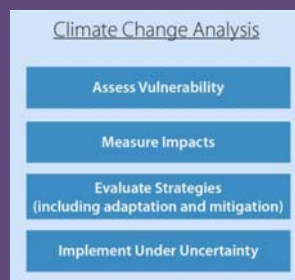
## Handbook's Purpose

- Outline the general process for accounting for climate change in water planning
- Synthesize available literature in a way that is useful for regional water planning
- Support IRWM planning in California

## What the Handbook is NOT

- A cookbook
- A one-size-fits-all methodology or approach
- An extension of or an addition to the IRWM Guidelines
- A requirement

## Climate Change Analysis



## Handbook Organization

- Chapter 1: Overview
- Chapter 2: The Science of Climate Change
- Chapter 3: Evaluating the Energy-Water Connection
- Chapter 4: Assessing Regional Vulnerability
- Chapter 5: Measuring Impacts
- Chapter 6: Evaluating Planning Options
- Chapter 7: Implementing Under Uncertainty

Also: Case Studies, extensive literature resources, and tools

## Anticipated Requirements for IRWMPs :

- a regional climate change vulnerability assessment
- a list of prioritized vulnerabilities
- a plan for data gathering/analyzing the prioritized vulnerabilities.

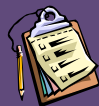


## Regional Vulnerability Assessment

### Chapter 4

Provides several methods for assessing a region's specific vulnerabilities to climate change.

- An extensive checklist of qualitative metrics that highlight vulnerabilities



## Prioritizing Regional Vulnerabilities

### Chapter 4

Provides several factors that a region would want to consider when prioritizing its vulnerabilities.

- Overall planning priorities
- Risks
- Potential for multiple stressors
- Potential adaptive capacity



## Measuring Climate Change Impacts

### Chapter 5

Provides detailed information on different methods for analyzing and measuring potential impacts of climate change.

- Gathering the required data
- Understanding the data
- Conducting the necessary analysis



## Climate Change in Other Elements of and IRWM Plan

- Region Description
- Project Review Process
- Plan Performance and Monitoring



## Region Description

Handbook contains a number of resources to help regions describe their region:

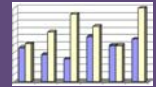
- a searchable database (Appendix A)
- a list of climate change tools (Appendix D)
- regional GHG emissions inventory tools (Chapter 3)



## Project Review Process

**Chapter 6** of the Handbook describes:

- Performance metrics for climate change adaptation
- Project level GHG emissions assessments



## Plan Performance and Monitoring

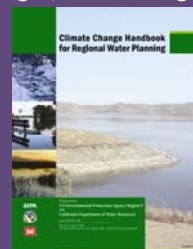
The Handbook describes several approaches for handling uncertainty and incorporating new information as it becomes available (**Chapter 7**)

- Adaptive Management
- Robust Decisions Making
- Decision Scaling and Scenario Planning



## How to Get the Handbook

[www.water.ca.gov/climatechange/CCHandbook.cfm](http://www.water.ca.gov/climatechange/CCHandbook.cfm)



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